

# Anil Kumar

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## **EDUCATIONAL QUALIFICATIONS:**

- **Ph. D (Pursuing)** from the Department of Electrical Engineering, **NIT Kurukshetra**, since 2019.
- **M. Tech** (Power System) from **NIT Kurukshetra** in 2014 with **9.1774 CGPA**.
- **B. Tech** (Electrical & Electronics Engineering) from **Meerut Institute of Technology, Meerut**, in 2012 with **76.32%**.
- Intermediate (PCM) from **UP Board** in 2007 with **73.2 %**.
- High School from **UP Board** in 2005 with **67.33 %**.

## **TEACHING EXPERIENCE:**

- Currently I am working as **Assistant Professor** in the Department of Electrical Engineering at **KIPM College of Engineering and Technology GIDA, Gorakhpur** from 11/08/2025 onwards.
- I worked as **Guest Faculty** in the Department of Electrical Engineering at **MMMUT Gorakhpur** from 05/09/2022 to 10/08/2025.
- I worked as **Assistant Professor** in the Department of Electrical Engineering at **SRMCEM Lucknow** from 26/10/2021 to 01/09/2022.
- I worked as **Assistant Professor (Under TEQIP-3, a project of MoE)** in the Department of Electrical Engineering at **Rajkiya Engineering College Bijnor** from 28/09/2018 to 30/09/2021.
- I worked as **Assistant Professor** in the Department of Electrical & Electronics Engineering at **SRMCEM Lucknow** from 14/07/2015 to 27/09/2018.
- I worked as **Assistant Professor** in the Department of Electrical Engineering at **MIET Meerut** from 26/07/2014 to 11/07/2015.

## **PUBLICATIONS:**

### **Journals:**

- **Anil Kumar**, Saurabh Chanana, and Amit Kumar, "Impact analysis of renewable energy resources and electric vehicles in hybrid power systems", *Computers and Electrical Engineering*, Volume 128, Part B, 2025, 110729, ISSN 0045-7906. <https://doi.org/10.1016/j.compeleceng.2025.110729> (**SCIE Journal**)
- **Anil Kumar**, Saurabh Chanana, and Amit Kumar. Analysis of new optimization technique MGO tuned FOIPDF controller in load frequency control. *Electr Eng* (2024). <https://doi.org/10.1007/s00202-024-02441-5>. (**SCIE Journal**)
- Rahul Kumar, Puneet Kumar, Surendra Chaudhary, Vikas Kumar Gautam, and **Anil Kumar**, "Bits Error Rate Calculation Of BPSK And QPSK Using Matlab", *International Journal of Emerging Technologies and Innovative Research* (www.jetir.org | UGC and issn Approved), ISSN:2349-5162, Vol.8, Issue 7, page no. ppd569-d574, July-2021,
- Dolly Rawat, Kajal Singh, Preeti Prajapati, Riya Baghel, Sakshi Singh and **Anil Kumar**, "RFID Based Attendance System Using GSM", *International Journal of Emerging Technologies and Innovative Research* (www.jetir.org | UGC and issn Approved), ISSN:2349-5162, Vol.8, Issue 8, page no. ppb53-b58, August-2021.

- **Anil Agrahari** , Ashutosh Verma , Abhishek Maurya , Ashish Kumar Pandey, 2022, Comparative Analysis of Various DC-DC Converters using MATLAB, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) Volume 11, Issue 04 (April 2022), page no. 190-200.
- **Anil Agrahari**, Shruti Sagar Shukla, Shivam Shukla and Shaurya Singh, “POWER QUALITY IMPROVEMENT USING DYNAMIC VOLTAGE RESTORER (DVR)”, International Research Journal of Modernization in Engineering Technology and Science, e-ISSN: 2582-5208, Volume :04/Issue :05/May -2022, page no. 4053-4058.

### **Conference proceedings/publications:**

- **Anil Kumar** & Ratna Dahiya, “Transient Response and Load Sharing Improvement in Islanded Microgrids”, International Conference on Industrial Engineering Science and Applications (IESA-14), NIT Durgapur, 2-4 April 2014, ISBN: 978-93-80813-21-1 ..
- **Anil Kumar** & Ratna Dahiya, “Voltage and Frequency Control for Grid Connected Wind/PV Energy Conversion System”, International Mechanical Engineering Congress (IMEC -2014), NIT Trichy, June 13-15, 2014, ISBN: 978-93-84389-01-7.
- **Anil Kumar** & K.S. Singh “Power Quality Improvement of Grid Connected Variable Speed Wind Energy Conversion System” International Conference on Computing, Communication and Control Technology (IC4T-2016), SRMGPC Lucknow, 10-12 Nov. 2016, ISBN: 978-93-5258-814-5.
- Prateek Kumar Upadhyay, Mohmmad Ahmad and **Anil Kumar**, “A Comparison of Conventional and Non-Conventional Energy Resources with World Energy Potential”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP, ISBN: 978-93-89296-42-6.
- Lov Kumar Singh, Praveen Kumar Singh, Mohmmad Ahmad & **Anil Kumar**, “Analysis of a Three Phase Induction Motor with Different AC supply”, International Conference on “RECCON 19”, on 27-28 November, 2019 at Rajkiya Engineering College, Ambedkar Nagar, UP, ISBN: 978-93-89296-42-6.
- **Anil Kumar**, Amit Kumar and Saurabh Chanana, “Comparative Analysis of various Modulation Index applied to Cascaded MLI using Selective Harmonic Elimination Technique”, International Conference on Challenges and Applications in Clean Energy (ICCACE-2020), December 25-26, 2020.
- **Anil Kumar**, S. K. Gupta, A. Kumar, S. Singh and N. Kumar, "Automatic Power Management System by Integration of Conventional and Non-Conventional Energy Resources," *2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST)*, 2022, pp. 12-15, [doi: 10.1109/ICRTCST54752.2022.9781885](https://doi.org/10.1109/ICRTCST54752.2022.9781885).
- Abhishek Srivastav, Sandhya Shrivastava, **Anil Kumar**, Vipin Kumar, Shantanu Srivastava, “Coal Mine Safety Monitoring and Alerting System”, 2nd ASIANCON 2022 ,Pune, India Technically Co-Sponsored by IEEE Bombay Section, Conference: 26th - 28th Aug. 2022 **DOI: [10.1109/ASIANCON55314.2022.9908737](https://doi.org/10.1109/ASIANCON55314.2022.9908737)**.

### **AREA OF RESEARCH:**

Renewable Energy Sources, Integration of Renewable Energy Sources to Micro grid, Distributed Power Generation.

### **WORKSHOP/ SEMINAR / SHORT TERM COURSES ORGANISED/ATTENDED:**

- **Participated** in a two week workshop on the topic **Electric Power System** conducted by **Indian Institute of Technology Kharagpur** and solved the assignments on software “Power World Simulator” and “PSCAD” from 12 June to 15 July 2017.

- **Participated** in one day workshop (13/05/2019) on the topic “**Collaborative Research Scheme**”, conducted by **SPIU** (State Project Implementation Unit) Uttar Pradesh at Lucknow.
- **Participated** in two day workshop (30 to 31/05/2019) on the topic “**Twinning workshop: Establish Mechanism for Enabling Peer to Peer Learning and Knowledge Sharing**”, conducted by **SPIU** (State Project Implementation Unit) Uttar Pradesh at Lucknow.
- **Participated** in one week national workshop (01 to 05/07/2019) on the topic “**Advanced Pedagogies: Active Learning and Digital Tools**”, conducted by **Indian Institute of Technology Guwahati**.
- **Participated** in one week national workshop (24 to 28/02/2020) on the topic “**Internet of Things (IoT)**”, conducted by **Indian Institute of Technology Bombay**.
- **Organized** as a **Convener** two days (4 to 5/12/2019) **National Hackathon at REC Bijnor**.
- **Organized** as a **Convener** one week startup program (25 to 29/11/2019) on the topic “**Innovate-2-Inspire**”, at REC Bijnor.
- **Organized** as a **Convener** one week workshop (04 to 08/11/2019) on the topic “**PLC, SCADA & Hardware Interfacing with Arduino**”, at REC Bijnor.
- **Organized** as a **Coordinator** one week STTP program (25 to 29/11/2019) on the topic “**Entrepreneurship and Business Model**”, at REC Bijnor.
- **Organized** as a Co-coordinator one week faculty development program (15 to 19/07/2019) on the topic “**Technology Enabled Teaching, Learning and Research**”, at REC Bijnor.
- **Organized** as a Co-coordinator one STTP (27 to 31/08/2019) on the topic “**Recent Trends in Power System Generation Operation & Control**”, at REC Bijnor.
- Organized as a Convener two days webinar on “**Startup, Innovation & IPR**” from 23 to 24 January 2021 at REC Bijnor.
- Organized as a Convener one day’s webinar on “**Planning a career under Entrepreneurship or higher Education**” on 23/08/2020 at REC Bijnor.
- Attended Training on “**Productivity Enhancement Program**”, Conducted by Art of Living, on July, 07-12, 2019, at REC Bijnor.

#### **OTHER SKILLS/ACTIVITIES PERFORMED:**

- **Completed 5-day online FDP** on the theme “**Inculcating Universal Human Values in Technical Education**” organized by All India Council for Technical Education (**AICTE**) from 4th July to 8th July, 2022.
- **Coordinated** the event “**Robo Race**” in “**Dr. Abdul Kalam Technical, Literary & Management Fest 2019**” organized by AKTU Lucknow at REC Bijnor during November 15-16, 2019.
- **Coordinated** the event “**Robo War**” in “**Dr. Abdul Kalam Technical, Literary & Management Fest 2019**” organized by AKTU Lucknow at REC Bijnor during November 15-16, 2019.
- **Completed** online course on **DC MICROGRID of 8 weeks** for the session Jul- Sep 2019 with a score of 88% and got silver medal from SWAYAM.
- **Completed** online course on **SMARTGRID of 8 weeks** for the session Jul- Sep 2019 from SWAYAM.
- **Completed** online course on **Introduction to Research of 8 weeks** for the session Jul- Sep 2019 from SWAYAM.
- **Completed** online course on **Control Engineering of 12 weeks** for the session Jan- June 2020 from SWAYAM.
- **Completed** online course on **DC Power Transmission System of 12 weeks** for the session Jan- June 2020 from SWAYAM.
- **Completed** online course on **Non-Conventional Energy Resources of 12 weeks** for the session Jan- June 2020 from SWAYAM.
- **Completed** online course on **Research Methodology of 15 weeks** for the session Jan- June 2020 from SWAYAM.
- **Scored “569 Gate score” in GATE 2012 and “442 Gate score” in GATE 2013.**
- **First Prize** in event Projecta in MIT Technozion 2K9, 2009.

- Consolation Prize in event On The Spot Project and Major Project in MIT Technozion 2K11, 2011.
- Event Organizer in MIT TECHNOZION 2K11, 2011.
- Consolation Prize in Seminar on topic POWERFORMAR at college tech fest.
- Good knowledge of MATLAB / SIMULINK & PSpice.

**PROJECT/DISSERTATION:**

- A project on “Transient Response and Load Sharing Improvement in Microgrids” in M.Tech Dissertation work.
- A project on “Analysis of Power System Stability using MATLAB” in B.Tech Final Year.
- A project on “Position Control of DC Motor by Single Switch” in B.Tech Third Year.
- A project on “Function Generator” in B.Tech Second Year.

**SUBJECT TAUGHT**

- Electric Machines
- Electric Drives
- Electrical Measurements and Instrumentation
- Renewable Energy Systems
- Power Systems
- Basic Signals and Systems

**Additional Responsibilities:**

- Active member of Exam Cell team in MIET Meerut (July 26, 2014 to July 11, 2015).
- President of Institutions Innovation Council (IIC 2.0) at REC Bijnor.
- Nodal Officer Academic-II of TEQIP Team in REC Bijnor.
- Assistant Dean Academic in REC Bijnor (15/10/2018-06/07/2019).
- Start-up & Entrepreneurship Coordinator in REC Bijnor.
- Industry Institute Interaction Cell Coordinator in REC Bijnor.
- Hostel warden (BH-2) in REC Bijnor.
- Member Secretary of Maintenance at REC Bijnor.
- Active member of departmental NBA team and completed criteria 1 and 10 of SAR at REC Bijnor.
- Coordinator of different responsibilities in Department at REC Bijnor.
- Placement faculty coordinator at SRMCEM Lucknow.
- Overall coordinator for IIC activity in Electrical Engineering department at SRMCEM Lucknow.

**PERSONAL INFORMATION:**

Father's Name:	Mr. Ram Newas
Marital status:	Married
Date of Birth:	12/01/1990

**DECLARATION:**

I hereby declare that the information mentioned above is correct up to my knowledge, and I bear the responsibility for the correctness of the particulars mentioned above.

**Place: Gorakhpur**

**(Anil Kumar)**